

ABSTRACT OF THE DISCLOSURE**COMPARATOR AND METHOD FOR DETECTING A SIGNAL USING A
REFERENCE DERIVED FROM A DIFFERENTIAL DATA SIGNAL PAIR**

A comparator and method for detecting a signal using a reference derived from a differential data signal pair improves performance of an interface. A differential pair of data signals and at least one single-ended data signal are transmitted over the interface. The differential pair of data signals is received by a differential receiver and the single-ended data signals are received by a receiver that uses the differential pair of data signals to improve the detection of the single-ended data signal. A novel comparator circuit provides the comparison, using a voltage or current level of the single-ended signal to determine states of the differential data signal pair.